

Notice of Allowability

Application No.

10/712,743

Applicant(s)

SANTOSUOSSO, JOHN
MATTHEW

Examiner

HUNG Q. PHAM

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/23/07.
2. ☒ The allowed claim(s) is/are 1,5-8,14,15,17 and 18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20070727.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

H. Q. Pham
HUNG Q PHAM
Primary Examiner
Art Unit 2168

EXAMINER'S AMENDMENT

- An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Joan Pennington, on 07/26/2007.

- In the Claims filed on 05/23/07, please
CANCEL claims 3 and 4;
REPLACE claims 1, 5-8, 14, 15, 17 and 18 by the following claims 1, 5-8, 14, 15, 17 and 18 (without strike-through and underlining markings):

1. A method for implementing enhanced query governor functions using a computer system for providing enhanced performance for said computer system, said computer system performing said method comprising the steps of:

receiving a query;

breaking down the received query into query execution components, wherein the query execution components comprises query data retrieval processing, user defined function (UDF) processing and trigger processing;

monitoring events, wherein the monitored events comprising at least an event to modify attributes and an event to execute query;

responsive to the monitored event to modify attributes, performing a modify attributes routine, said performing the modify attributes routine including checking for a monitor being requested, and responsive to the monitor being requested, setting timeout values for the requested monitor, wherein the requested monitor checking the user defined function (UDF) processing and the trigger processing against the set timeout values;

responsive to the monitored event to execute query, performing an execute query routine, said performing the execute query routine including checking for a timeout value for the query data retrieval and checking for the set timeout values performed by the modify attributes routine;

responsive to an identified timeout value for the query data retrieval, resetting an execution time for the query;

starting the requested monitor;

starting the execution of the query;

monitoring the execution of predefined events during the execution of the query; said predefined events including a begin or end of processing of the requested monitor;

storing start and end processing time of the user defined function (UDF) processing and the trigger processing in a table;

periodically checking execution status of the query;

checking for an expired timeout value for the query data retrieval and for the requested monitor; and

halting the execution of the query responsive to an identified expired timeout value.

5. The method for implementing enhanced query governor functions as recited in claim 1 wherein the step of monitoring the execution of said predefined events includes the step of recording empirical data for said trigger processing, and said user defined function (UDF) processing.

6. The method for implementing enhanced query governor functions as recited in claim 5 includes the step of checking to determine based upon said recorded empirical data whether in most likelihood that the query can finish execution within the set timeout values for the requested monitor, and responsive to determining in most likelihood the query will not finish execution within said set timeout values for the requested monitor, execution of the query is not started.

7. The method for implementing enhanced query governor functions as recited in claim 1 includes the step responsive to halting the execution of the query, setting return

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code values for said identified expired timeout value for processing said UDF processing, said trigger processing, and the query data retrieval.

8. The method for implementing enhanced query governor functions as recited in claim 1 wherein said modify attributes routine further includes the step of changing query attributes.

14. A computer-readable medium encoded with a computer program product for implementing enhanced query governor functions in a computer system, said computer-readable medium consisting one of a floppy disk, a hard disk, a high capacity read only memory in the form of an optically read compact disk or CD-ROM, a DVD, a tape, a read only memory (ROM), and a random access memory (RAM), said computer program product including instructions stored on the computer-readable medium, wherein said instructions, when executed by the computer system to cause the computer system to perform the steps of:

receiving a query;

breaking down the received query into query execution components, wherein the query execution components comprises query data retrieval processing, user defined function (UDF) processing and trigger processing;

monitoring events, wherein the monitored events comprising at least an event to modify attributes and an event to execute query;

responsive to the monitored event to modify attributes, performing a modify attributes routine, said performing the modify attributes routine including checking for a monitor being requested, and responsive to the monitor being requested, setting timeout values for the requested monitor, wherein the requested monitor checking the user defined function (UDF) processing and the trigger processing against the set timeout values;

responsive to the monitored event to execute query, performing an execute query routine, said performing the execute query routine including checking for a timeout value for the query data retrieval and checking for the set timeout values performed by the modify attributes routine;

responsive to an identified timeout value for the query data retrieval, resetting an execution time for the query;

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starting the requested monitor;
starting the execution of the query;
monitoring the execution of predefined events during the execution of the query;
said predefined events including a begin or end of processing of the requested monitor;
storing start and end processing time of the user defined function (UDF) processing
and the trigger processing in a table;
periodically checking execution status of the query;
checking for an expired timeout value for the query data retrieval and for the
requested monitor; and
halting the execution of the query responsive to an identified expired timeout
value.

15. The computer-readable medium encoded with a computer program product for implementing enhanced query governor functions as recited in claim 14 wherein said instructions further cause the computer system to perform said modify attributes routine including the steps of changing query attributes.

17. The computer-readable medium encoded with a computer program product for implementing enhanced query governor functions as recited in claim 14 wherein the step of monitoring the execution of said predefined events includes the step of recording empirical data for said trigger processing, and said user defined function (UDF) processing.

18. The computer-readable medium encoded with a computer program product for implementing enhanced query governor functions as recited in claim 17 includes the steps of checking to determine based upon said recorded empirical data whether in most likelihood that the query can finish execution within the set timeout values for the requested monitor, and only responsive to determining in most likelihood the query can finish execution within said set timeout values for the requested monitor, starting execution of the query.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

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Prior arts of record do not render obvious, nor anticipate the combination of claimed elements including the technique of *storing start and end processing time of the user defined function (UDF) processing and the trigger processing in a table* as recited in claims 1 and 14. Thus, claims 1 and 14 are allowed. Dependent claims 5-8, 15, 17 and 18 are allowed at least by virtue of their dependencies from claims 1 and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG Q. PHAM whose telephone number is 571-272-4040. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIM T. VO can be reached on 571-272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

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would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

L. Pham

HUNG Q PHAM
Primary Examiner
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July 26, 2007